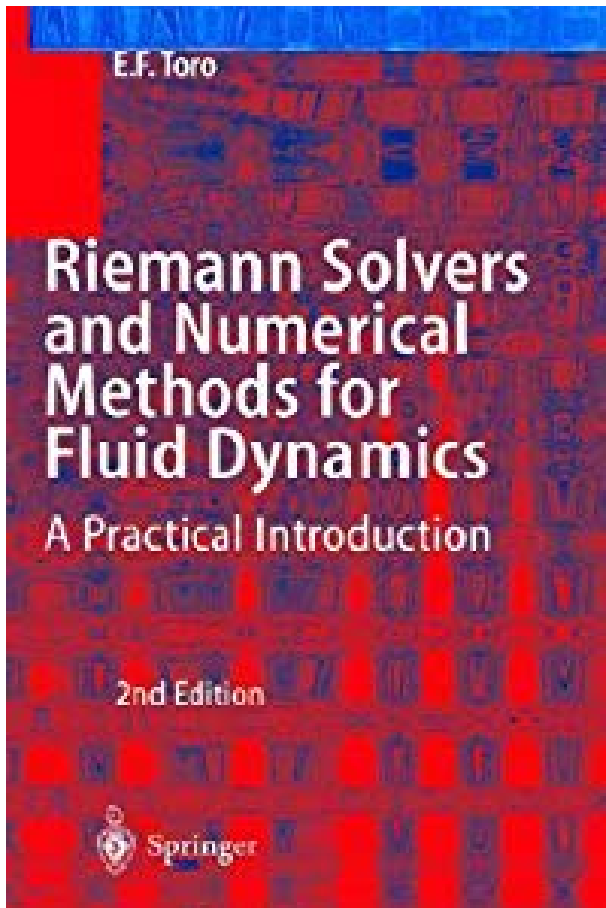


Riemann Solvers and Numerical Methods for Fluid Dynamics: A Practical Introduction



Author:	Eleuterio F. Toro
Genre:	Uncategorized
ISBN13:	9783540659662
Goodreads Rating:	3.67
Published:	August 1st 1999 by Springer
Language	English
Pages:	624
ISBN10:	3540659668

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High resolution upwind and centered methods are today a mature generation of computational techniques applicable to a wide range of engineering and scientific disciplines, Computational Fluid Dynamics (CFD) being the most prominent up to now. This textbook gives a comprehensive, coherent and practical presentation of this class of techniques.

The book is designed to provide readers with an understanding of the basic concepts, some of the underlying theory, the ability to critically use the current research papers on the subject, and, above all, with the required information for the practical implementation of the methods. Applications include: compressible, steady, unsteady, reactive, viscous, non-viscous and free surface flows.